Performance Data Sheet

RGA5513BAA

General Information

Model	RGA5513BAA	**Refrigerant**	R-410A
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3980	3740					
	Watts	811	859					
	Amps	10.3	10.5					
	Lb/h	53.4	51.7					
-10	Btu/h	4800	4500	4190				
	Watts	820	873	927				
	Amps	10.3	10.6	10.8				
	Lb/h	61.2	59.3	57.4				
-5	Btu/h	5680	5310	4930	4550			
	Watts	827	887	947	1010			
	Amps	10.3	10.6	10.9	11.3			
	Lb/h	69.9	67.7	65.5	63.3			
0	Btu/h	6620	6170	5720	5270	4810		
	Watts	832	899	965	1030	1100		
	Amps	10.3	10.7	11.1	11.4	11.8		
	Lb/h	79.4	77.0	74.5	72.1	69.6		
5	Btu/h	7620	7100	6570	6040	5510		
	Watts	836	908	981	1050	1130		
	Amps	10.4	10.8	11.2	11.6	12.0		
	Lb/h	89.8	87.1	84.4	81.7	78.9		
10	Btu/h	8700	8090	7480	6880	6270	5660	5050
	Watts	837	916	995	1080	1150	1230	1320
	Amps	10.3	10.8	11.3	11.7	12.2	12.7	13.2
	Lb/h	101	98.1	95.1	92.1	89.1	86.0	82.9
15	Btu/h	9840	9150	8460	7780	7090	6400	5720
	Watts	835	921	1010	1090	1180	1270	1350
	Amps	10.3	10.8	11.4	11.9	12.4	12.9	13.5
	Lb/h	113	110	107	104	100	96.8	93.4
20	Btu/h	11100	10300	9520	8750	7980	7220	6450
	Watts	830	923	1020	1110	1200	1300	1390
	Amps	10.3	10.9	11.4	12.0	12.6	13.2	13.8
	Lb/h	127	123	119	116	112	109	105

25	Btu/h	12400	11500	10700	9800	8950	8100	7250
	Watts	823	923	1020	1120	1220	1320	1420
	Amps	10.2	10.8	11.5	12.1	12.8	13.4	14.1
	Lb/h	141	137	133	129	125	121	117
30	Btu/h	13800	12800	11900	10900	9990	9060	8120
	Watts	811	918	1030	1130	1240	1350	1450
	Amps	10.1	10.8	11.5	12.2	12.9	13.6	14.3
	Lb/h	156	152	148	143	139	135	130
35	Btu/h	15200	14200	13200	12100	11100	10100	9070
	Watts	796	910	1020	1140	1250	1370	1480
	Amps	9.94	10.7	11.5	12.2	13.0	13.8	14.6
	Lb/h	172	168	163	159	154	149	145
40	Btu/h	16800	15700	14600	13400	12300	11200	10100
	Watts	776	898	1020	1140	1260	1380	1510
	Amps	9.76	10.6	11.4	12.3	13.1	13.9	14.8
	Lb/h	190	185	180	175	170	165	160
45	Btu/h	18500	17300	16100	14800	13600	12400	11200
	Watts	752	881	1010	1140	1270	1400	1530
	Amps	9.53	10.4	11.3	12.2	13.1	14.0	14.9
	Lb/h	208	203	198	192	187	182	176
50	Btu/h	20300	19000	17700	16300	15000	13700	12400
	Watts	723	860	997	1130	1270	1410	1540
	Amps	9.25	10.2	11.2	12.2	13.1	14.1	15.1
	Lb/h	228	222	217	211	205	199	194
55	Btu/h	22200	20800	19400	17900	16500	15200	13800
	Watts	689	834	979	1120	1270	1410	1560
	Amps	8.91	9.97	11.0	12.1	13.1	14.1	15.2
	Lb/h	249	243	237	231	224	218	212

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.020928E+04	3.038919E+02	7.521498E+00	9.822116E+01
C2	3.206804E+02	-9.645173E+00	-8.486494E-02	2.443182E+00
C3	-4.503637E+01	6.635229E+00	3.582834E-02	-2.406539E-01
C4	1.629652E+00	-6.478360E-02	-5.314425E-04	2.010403E-02
C5	-1.639797E+00	1.355795E-01	1.146439E-03	-6.084392E-03
C6	6.144506E-03	-9.652100E-04	-1.689882E-05	1.537181E-04
C7	6.207637E-03	-4.066059E-04	-5.849631E-06	4.191068E-05
C8	-4.420571E-03	2.925948E-04	4.142560E-06	-3.058159E-05
C9	7.132051E-04	-4.717127E-05	-6.486954E-07	4.995422E-06
C10	-4.830213E-05	7.227643E-06	1.249408E-07	-1.144898E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature